TEROSON

Technical Data Sheet

TEROSON EF 537

August 21

Flexible 1-component gun foam for the thermal and acoustic insulation between window connection joints and building shell

PROPERTIES

- Flammability class B1 "hardly inflammable" (according to DIN 4102-1)
- Low-temperature foam: can be used down to -10 °C
- i.f.t.-tested window foam: long-term flexibility and high dimensional stability
- i.f.t.-tested for the acoustic insulation of joints in compliance with DIN 52210 (up to 60 dB)
- i.f.t.-tested for air permeability and vapor diffusion
- MPA-tested for thermal insulation
- Easy application thanks to low post-expansion of approx. 20 %
- Lower curing pressure than conventional PU foams
- Fully cured already after 60 minutes
- EMICODE EC 1^{Plus} R certified
- Available on request: Product and manufacturer's declarations according to DGNB, LEED and BREEAM

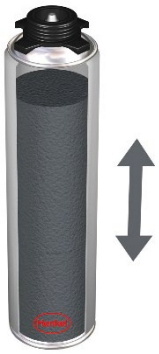
POSSIBLE USES

- Particularly suited for foam-filling and sealing joints around windows and exterior doors
- For fixing windowsills – indoors and outdoors
- For insulating structural components against heat, cold, sound and draughts
- For filling cavities, e.g. insulation board joints and scaffolding anchor penetrations in ETIC systems, as well as wall penetrations
- For bonding perimeter insulation boards
- For sealing manhole rings and well casings up to 0.5 bar water pressure
- For filling the joints of soundproof doors in compliance with DIN 4109 (e.g. apartment doors, doors to doctors' surgeries)

SUBSTRATE PREPARATION

The substrate must be clean, sound, load-bearing and free of dust. Loose, crumbling surfaces must be removed.

APPLICATION



Shake the can 10-15-times before use!

Afterwards, screw the can onto the foam gun (see figures below). Fill the joint almost completely. The foam expands only slightly and is dimensionally stable after curing.

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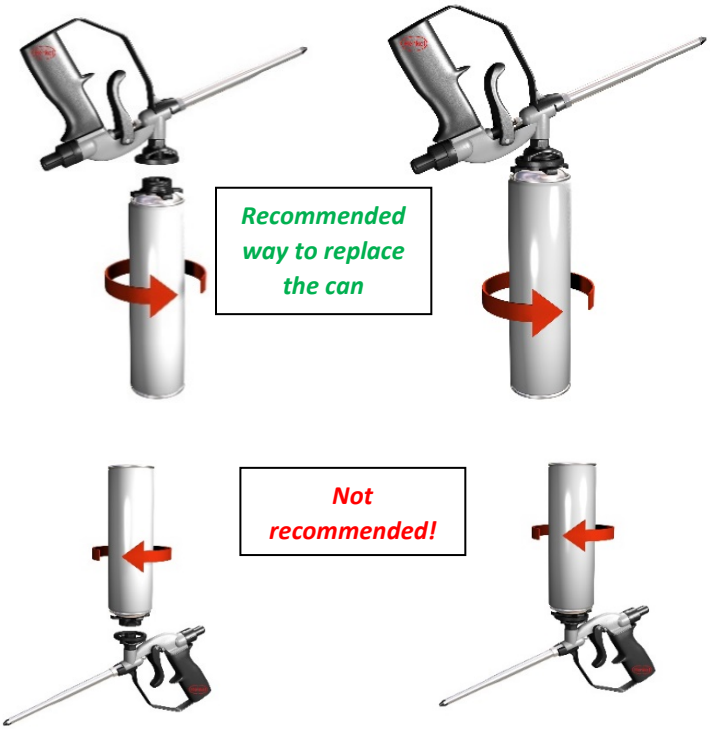
After unscrewing the empty can, immediately replace it with a new can of TEROSON EF 537. Never remove the gun forcibly from the can. If the gun is not used for a longer period of time, clean it thoroughly with a PU cleaner.

If the air humidity is low, the freshly applied foam should be moistened with water from a spray bottle, especially in old buildings. Adjoining areas should be masked (e.g. with adhesive tape or sheeting). When moistening the bonding areas in frosty weather, ice crystals may form on the joint edges. In the cold season, these ice crystals will result in poor adhesion or even cause adhesive failure.



OTHER USES

TEROSON EF 537 is suitable for sealing manhole rings and well casings made of concrete (max. water pressure 0.5 bar). To ensure optimum sealing of the manhole rings, it is necessary to bond them immediately after applying the adhesive (max. 5 min). Make sure to avoid damp substrates. Do not moisten the foam before bonding.

TEROSON EF 537 can be used for bonding windowsills indoors and outdoors. When bonding windowsills indoors, e.g. made of natural or artificial stone, wood and laminated wood materials, it must be ensured that the load of the dead weight and of additional weights, e.g. flowers on the windowsill, is dissipated into the substrate by using load compensation blocks. The foam is not suitable for absorbing pressure loads.

When bonding windowsills outdoors, e.g. made of aluminum, it must be ensured that any accumulated condensation moisture can drain off. The joint between substrate and windowsill should be no larger than 2 cm. During the curing of TEROSON EF 537 foam, the windowsills should be weighted down.

PLEASE NOTE

When changing PU foam cans, do **not** screw the can onto the gun with the valve facing downwards. Foam can escape if the valve is opened too early.

To prevent PU foam escaping from the valve, make sure to hold the can upright when screwing the gun onto the can.

After changing the can, the trapped humidity should be removed from the gun by spraying out a small amount of foam.

FOAM APPLICATION IN WINTER

TEROSON EF 537 can also be used in winter. Ideally, the can temperature should not fall below 0 °C. Take care that no ice crystals form on the joint edges. The ambient temperature must not be lower than -10 °C. Ideally, the cans should be stored in temperature-controlled rooms before use, especially overnight, to ensure a uniform flow rate of the foam during application.

CLEANING

Fresh PU foam can be removed with TEROSON Cleaner. After curing, PU foam can only be removed mechanically.

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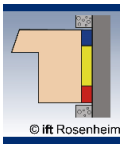
SUSTAINABLE BUILDING

On request, product and manufacturer's declarations for sustainable building can be made available for this product. The documents meet the requirements of common certification and assessment systems such as DGNB, LEED and BREEAM.

CERTIFICATES

GEV-EMICODE EC 1 very low emission

WINTeQ System Institute-tested quality by Teroson



TRANSPORT

TEROSON EF 537 cans must be transported in the boot or cargo area of the car, not on the back seats. The product contains flammable propellants. Store the cans in an upright position during transport. Empty cans must be closed with the screw cap.

Transport must be carried out in accordance with the regulations of the "Ordinance on the national and international carriage of dangerous goods by road, rail and inland waterways" (Hazardous Goods Ordinance – Road, Rail and Inland Waterways – GGVSEB/2015)".

TECHNICAL DATA

TEROSON EF 537

Material base:	Polyurethane, 1-component
Color:	Beige
Odor:	Odorless
Foam expansion:	Approx. 20 %
Thermal conductivity:	0.035 W/m²K
Shear strength:	4.0 N/cm²
Density after foam-filling the joint:	17-19 g/l
Skin formation time:	Approx. 9-11 min (at +20 °C)
Application temperature: Can Air / substrate	 0 °C to +35 °C -10 °C to +35 °C (ideally +15 °C to +25 °C)
Temperature resistance:	-40 °C to +100 °C
Fire resistance: (DIN 4102-1):	Hardly inflammable (class B1)
Curing rate:	Approx. 60 min at 23 °C / 50 % RH
Cuttability (strand of 20 mm thickness):	30-35 min
Coverage:	Approx. 40 m for joints of 2 x 5 cm size
Packaging:	750 ml aerosol can
Cleaner:	TEROSON Cleaner while the PU foam is still fresh

STORAGE

TEROSON EF 537 can be stored for 18 months in a cool and dry place between +5 °C and +20 °C. Date of manufacture: see bottom of the can. Ideally, the cans should be stored in an upright position.

DISPOSAL

After curing, the foam is no longer a hazardous material and can be disposed of with household waste. Single cans should be taken to a municipal waste collection point for recycling. Cartons can be collected by the PDR recycling service which is free of charge in Germany.

European Waste Code (EWC): 160504

Apart from the information given in this Technical Data Sheet it is also important to observe the relevant guidelines and regulations of various organizations and trade associations as well as the applicable national standards. All data given was obtained at an ambient and material temperature of +23°C and 50% relative humidity unless specified otherwise. Please note that in other climatic conditions hardening may be accelerated or delayed and take the resulting consequences into account.

The above information, in particular proposals for the handling, application and use of our products, is based on our knowledge and experience. As materials and conditions may vary with each intended application and thus are beyond our influence, we strongly recommend that in each case the user conducts sufficient tests to ensure our products are suitable for the intended application method and use. Legal liability cannot be accepted, either based on the content of this data sheet or any verbal advice given, unless there is evidence of carelessness or gross negligence on the manufacturer's part. This Technical Data Sheet supersedes all previous issues.
Please refer to our Safety Data Sheet for hazard warnings, safety advice and information on transport labelling.

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